SHARP SERVICE MANUAL

GF-6262ZL

ATSM681085RCS

APSS
Auto Program Search System

GF-6262ZL

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION OSAKA, JAPAN

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL

SPECIFICATIONS

GENERAL

Type:	Portable stereophonic cassette tape recorder with built-in AM/SW_1/SW_2/FM 4-band radio.
Power source:	AC 110 ~ 120 V/220 ~ 240 V, 50/60 Hz DC 12 V (Eight UM/SUM-1, R20 batteries or external DC supply)
Speakers:	12 cm (Woofer) x 2 Horn type (Tweeter) x 2
Output power:	MPO 15W (7.5W + 7.5W) on AC
Semiconductors:	5 ICs 17 transistors 20 diodes 8 LEDs
Dimensions:	
Width;	450 mm (17-3/4")
Depth;	125 mm (5")
Height;	258 mm (10")
Weight:	5 kg (11 lbs) without batteries

TAPE RECORDER SECTION

Tape:	Philips-type compact cassette tape
Tape speed:	4.8 cm/sec. (1-7/8ips)
Frequency response:	50 ~ 13000Hz using Metal tape
Signal/Noise ratio:	50 dB
Wow and flutter:	0.10% WRMS
Input sensitivity and input impedance:	
External microphone:	600 ohms
Mixing microphone:	600 ohms
Output level and loading impedance:	
Headphones;	8 ohms ~ 25 ohms
External speakers;	3.2 ohms ~ 8 ohms

RADIO SECTION

Frequency range:	AM;	525 kHz ~ 1605 kHz
	SW_1;	2.3 MHz ~ 7.3 MHz
	SW_2;	7.3 MHz ~ 22 MHz
	FM;	87.6 MHz ~ 108 MHz

Specifications are subject to change without prior notice.

DIAL CORD STRINGING

1) Turn the drum fully clockwise and stretch its cord cover the parts in the numerical order – as shown in Fig. 2–1.
2) Turn the fine tuning control shaft fully counterclockwise, and fix it with the pointer aligned with the zero (0) point on the dial scale. See Fig. 2–2.

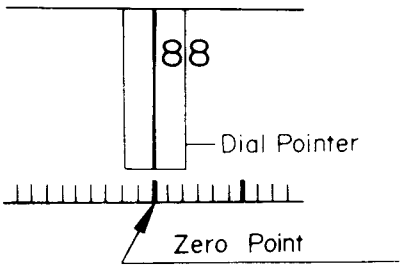


Figure 2–2

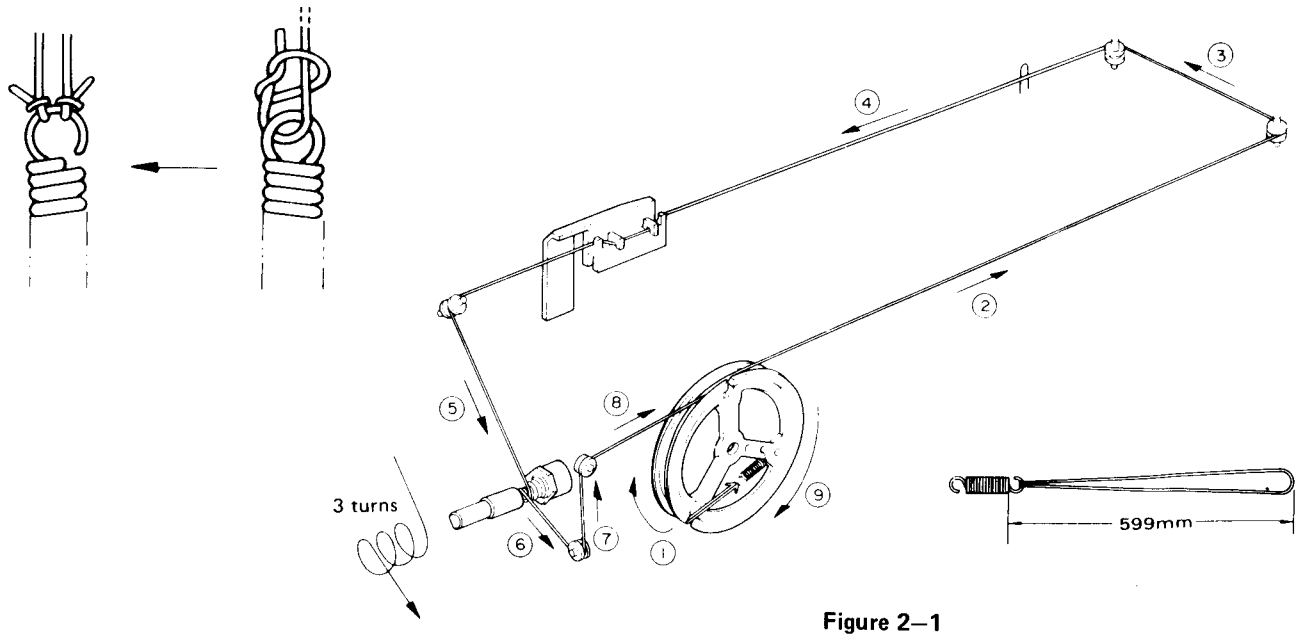
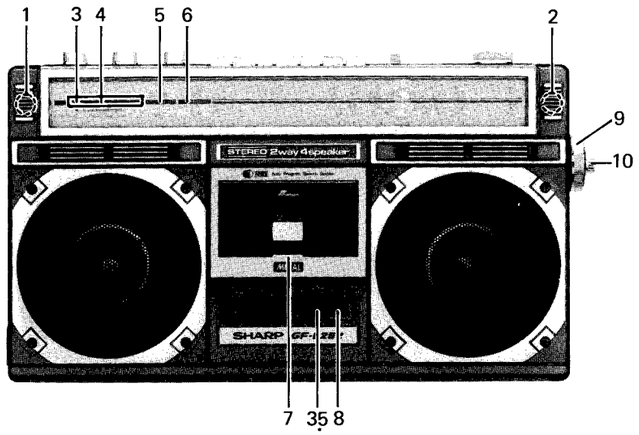
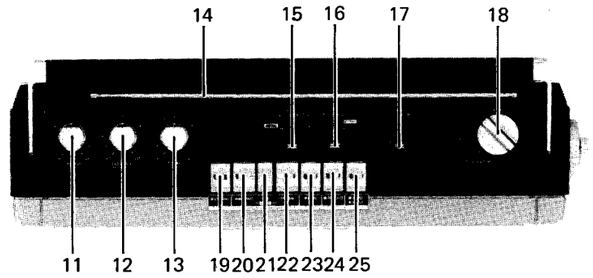
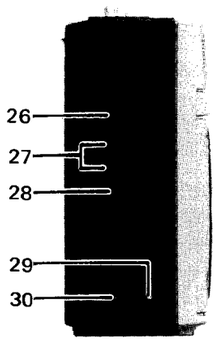


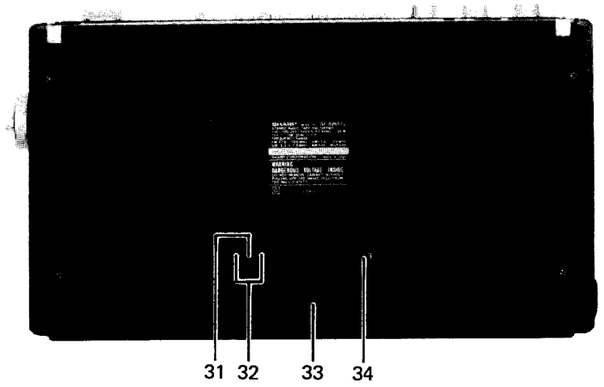
Figure 2–1

NAMES OF PARTS









1. Built-in Microphone (L-ch)
2. Built-in Microphone (R-ch)
3. Power On/Battery Level Indicator
4. Level Indicator
5. APSS Indicator
6. FM Stereo Indicator
7. Cassette Holder
8. Digital Tape Counter
9. Tuning Control
10. Fine Tuning Control
11. Volume Control
12. Balance Control
13. Tone Control
14. FM/SW Telescopic Rod Antenna
15. Tape Selector
16. Function Selector
17. FM Mode Selector
18. Band Selector
19. Pause Key
20. Fast-forward/Cue/Forward APSS Key
21. APSS Cut Key
22. Rewind/Review/Reverse APSS Key
23. Playback Key
24. Record Key
25. Stop/Eject Key
26. Mixing Microphone Socket
27. External Speaker Sockets
28. Headphones Socket
29. External DC Power Supply Socket
30. AC Power Supply Socket
31. Remote Control Socket
32. External Microphone Sockets
33. Battery Compartment Lid
34. Beat Cancel Switch
35. Counter Reset Button

Figure 3

DISASSEMBLY

Caution: Prior to the disassembly, be sure to remove the power supply cord plug, cassette tape, battery and adaptor from the unit.

■ **FRONT CABINET REMOVAL** (Refer to Figure 4–1)

1. Remove the seven screws – at the rear of the unit – retaining the front cabinet.
2. Push the stop/eject key to open the cassette holder.
3. Detach the front cabinet, and withdraw the speaker three tips. See Figure 4–2.

■ **MECHANISM BLOCK REMOVAL** (Refer to Figure 4–2)

1. Detach the dial scale plate.
2. Remove the four screws retaining the mechanism block.
3. Disconnect the three sockets (CNS101, CNS102, CNS103) and the one tip from the PWB, then the mechanism block can be removed.

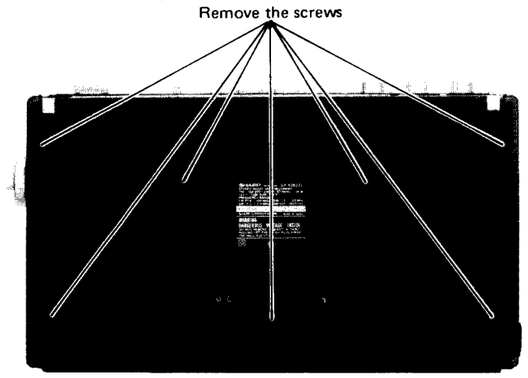


Figure 4–1

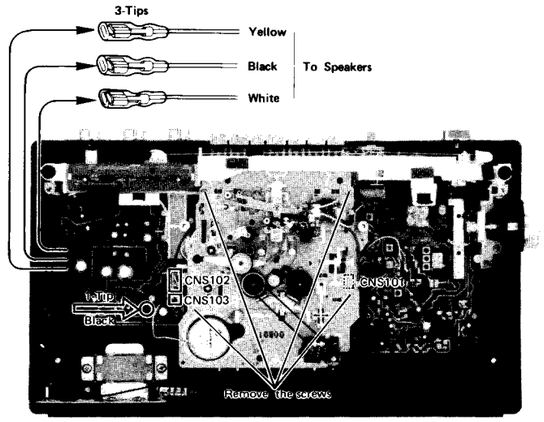


Figure 4–2

■ **CHASSIS (PWB) REMOVAL** (Refer to Figure 4–3)

1. Take the six knobs off.
2. Disconnect the three tips from the PWB.
3. Remove the seven screws retaining the amp./tuner PWB, then it can be removed from the back cabinet.

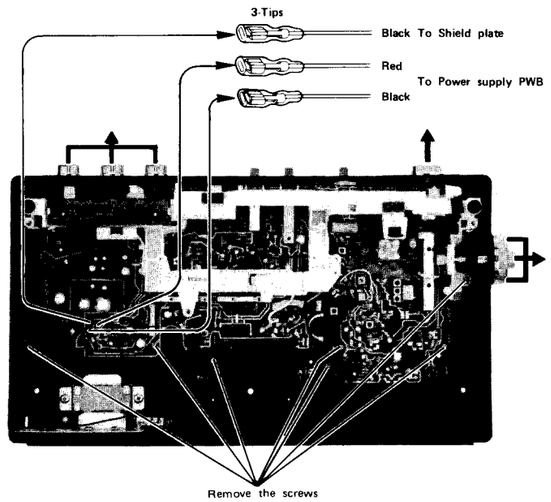


Figure 4–3

VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Slide the AC power supply socket cover by a little loosing two screws to the visible indication of the side of your local voltage. See Figure 4–4.

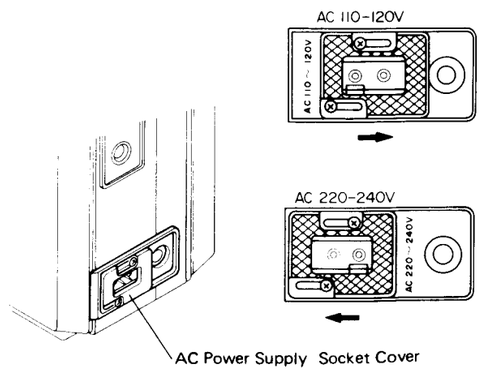


Figure 4–4

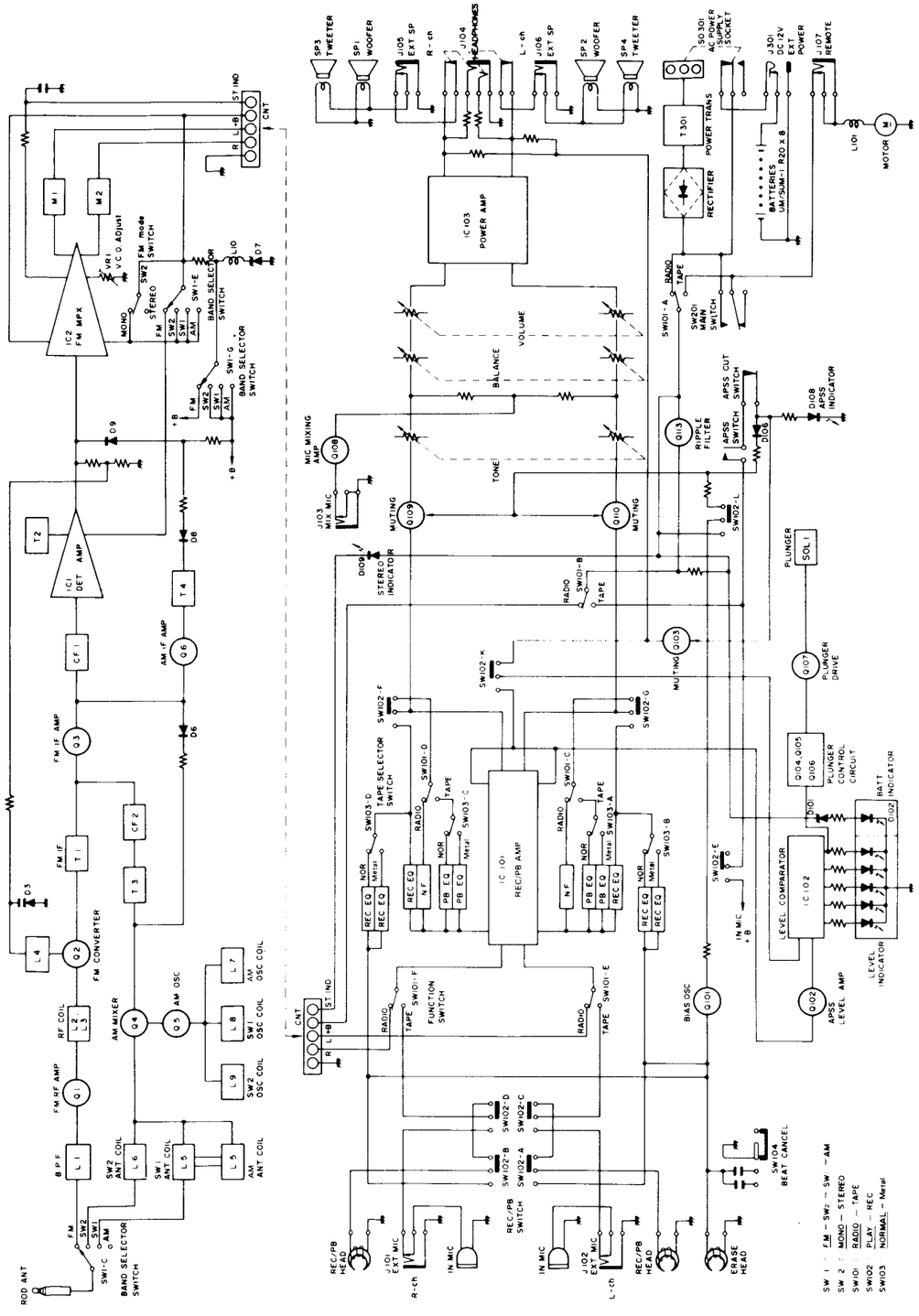


Figure 5 BLOCK DIAGRAM

EXPLANATIONS OF APSS AND ALC

APSS

1. The signal coming from the head is boosted by the equalizer (IC101) amplified first and next by the level amplifier (Q102), then it enters pin (3) of the level comparator (IC102).
2. The level comparator works to make the LEDs D102 (1 to 5) light according to a variety of the input level, which is shown:

LED No.	D102–1	D102–2	D102–3	D102–4	D102–5
Level (dB)	–20	–10	–5	0	+3

The unit is designed to provide VU indication for both the tape playback mode and the radio reception mode, and in addition, that indication is allowed in the APSS mode via the said level comparator function, the feature of which is here explained:
Even if the recording level of a tape is relatively low (–30 dB), it is boosted by the level amplifier (Q102) to permit the VU indication — in this case, the D102–1 can light assuming that the recording level is within the range from –30 dB to –40 dB.
When the programs space is reached in playback, no voltage is applied to the D102–1 for it not to light at all.

3. For the non-signal recorded part which exists for not more than 0.5 second, it shall not be mistaken as the programs space, and this is made possible via the time constant assured by the capacitor (C146, C149) and resistors (R164, R165).
4. When the APSS switch is placed at "ON" the transistor Q105 of the APSS circuit turns on first, and then the operation goes on as follows. See Figures 6–2 thru 6–5.
   1) When the unit is in the playback mode with the APSS switch kept off, the Q104 and Q105 remain off — though the C152 is charged (shown in Figure 6–2), so that both the Q106 and the plunger be off.
   2) The Q104 turns on or off according to whether or not a voltage is present at the D 102–1 (see Step 2), and this is summed up;

Recorded program	Voltage at D102–1	Q104
Absent	Absent	OFF
Present	Present	ON

   3) In the case the APSS switch is pushed on just when the programs space (non-signal recorded part) is being traced in playback:
   Here, the Q104 is kept off (see Figure 6–3), and assuming the charging of C152 is not yet completed, the Q106 turns on to permit the timer standby mode. If the tape advances to the signal recorded part, the Q104 turns on and the C152 discharges (see Figure 6–4). Then, if the tape reaches the programs space, the Q104 turns off, a current is caused at the C152, the Q106 turns on, and the plunger is activated (see Figure 6–5).
   4) In the case the APSS switch is pushed on just when the signal (program) recorded part is being traced in playback:
   The Q104 turns on (Figure 6–4), and if the programs space is reached, the plunger will be on as shown in Figure 6–5.
   5) Besides with the APSS switch on, the Q103 turns on to stop (mute) the VU signal coming from the power amplifier (IC103).

■ ALC (Automatic Level Control)

The ALC feature is provided by the level comparator (IC102). DC voltage at pin (14) of the IC102 varies — in a linear form — according to the strength of input, and the resultant voltage is applied to pin (16) of the record/playback amplifier (IC101).
D105 serves as a buffer for the ALC time constant circuit (C147, R151) — without the function of rectification.

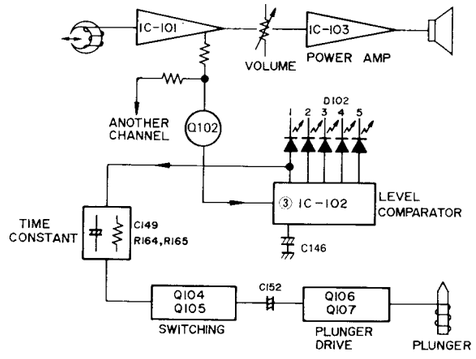


Figure 6–1

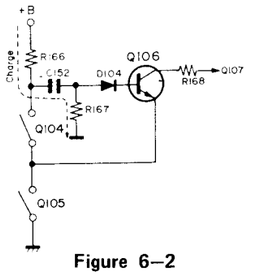


Figure 6–2

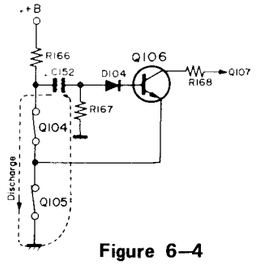


Figure 6–4

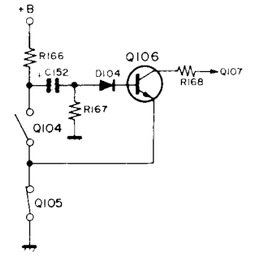


Figure 6–3

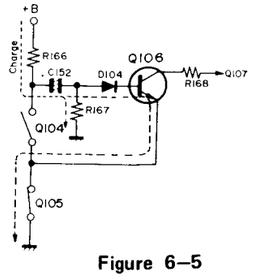


Figure 6–5

MECHANICAL ADJUSTMENT

■ TORQUE CHECK AT PLAY, FAST FORWARD AND REWIND MODES (Refer to Figure 7–1)

1. Set a torque measuring reel to the turntable (to the take up side at play or fast forward mode and to the supply side at rewind mode).
2. Then, gradually weaken a force of the tension gauge and read the torque value when the rotation speed of the turntable becomes nearly constant.
3. The torque values in each mode are as specified below.

Mode	Torque value
Play	35 ~ 60 gram. cm
Fast forward	70 ~ 110 gram. cm
Rewind	70 ~ 110 gram. cm

■ PLUNGER POSITIONAL ADJUSTMENT

(Refer to Figure 7–2)

1. Loosen the screws retaining the plunger.
2. While depressing the core into the plunger, push the key. In this time, adjust the plunger position so that the pin on the Rewind/Reverse APSS lever touches the Ⓐ part of the APSS lock lever.
3. After adjustment, retighten the screws.

■ PRESSURE ROLLER PRESSURE ADJUSTMENT

(Refer to Figure 7–3)

1. Place this unit in playback mode.
2. Use a tension gauge (500 grams) to press it to the specified position of the pressure roller to make the pressure roller apart from the capstan (at the time, the pressure roller stops to rotate). Then, gradually weaken a force of the tension gauge and read the value when the pressure roller begins to rotate. Make sure that the reading of tension gauge is 290 to 400 grams.
3. If the value is not satisfied, adjust it by bending the pressure roller spring or replace the spring with a new one.

Notes:

In playback mode, make sure there is a gap of more than 0.1mm between the pressure roller lever and the sub-chassis.

■ PAUSE TIMING ADJUSTMENT (Refer to Figure 7–4)

1. Place this unit in playback mode. Then, check the gap between the pin on the pause lever and pause lock lever. The gap should be more than 0.2mm.
2. Next, push the pause key slowly and check that the pressure roller and take-up idler are simultaneously apart from the capstan and take-up turntable.
3. If it is not satisfied in step 2, adjust it by bending the Ⓐ part of the pause lever.

■ TAPE SPEED ADJUSTMENT (Refer to Figure 7–5)

1. Connect a frequency counter, across a resistor (4 ohms, 2 W, ±5%), to the EXT. speaker socket (J105 or J106).
2. Play a test tape (MTT-111; –10 dB, 3 kHz) at its start and end points, and adjust the semi-variable resistor so that the frequency counter reads 2955 to 3040 Hz — using a bladed screwdriver via the hole at the motor's bottom.

■ RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

(Refer to Figure 7–6)

1. Connect output signals from the EXT. speaker socket J105 (for right channel) and J106 (for left channel), to the input terminals CH-1 and CH-2 of a dual-beam oscilloscope.
2. Play a test tape (MTT-114, 10 kHz – 10dB), and adjust the head azimuth adjusting screw so that the output signals from both channels will have maximum waveform with the same phase in right and left.
3. In case of not using the oscilloscope, also adjust the head azimuth adjusting screw so that the output from either channel will be maximal.

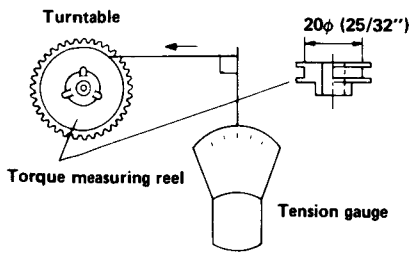


Figure 7–1

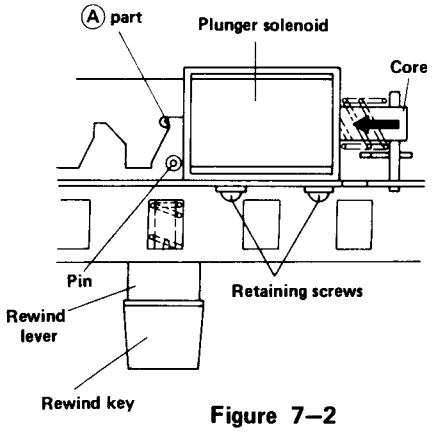


Figure 7–2

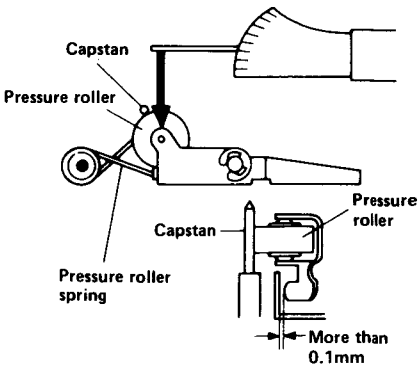


Figure 7–3

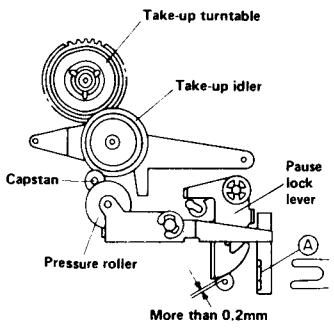


Figure 7–4

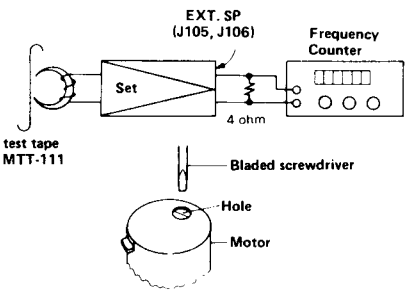


Figure 7–5

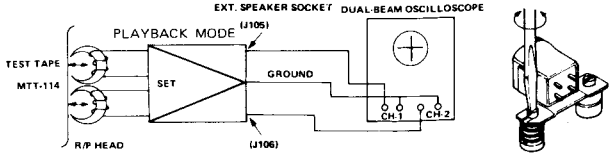


Figure 7–6

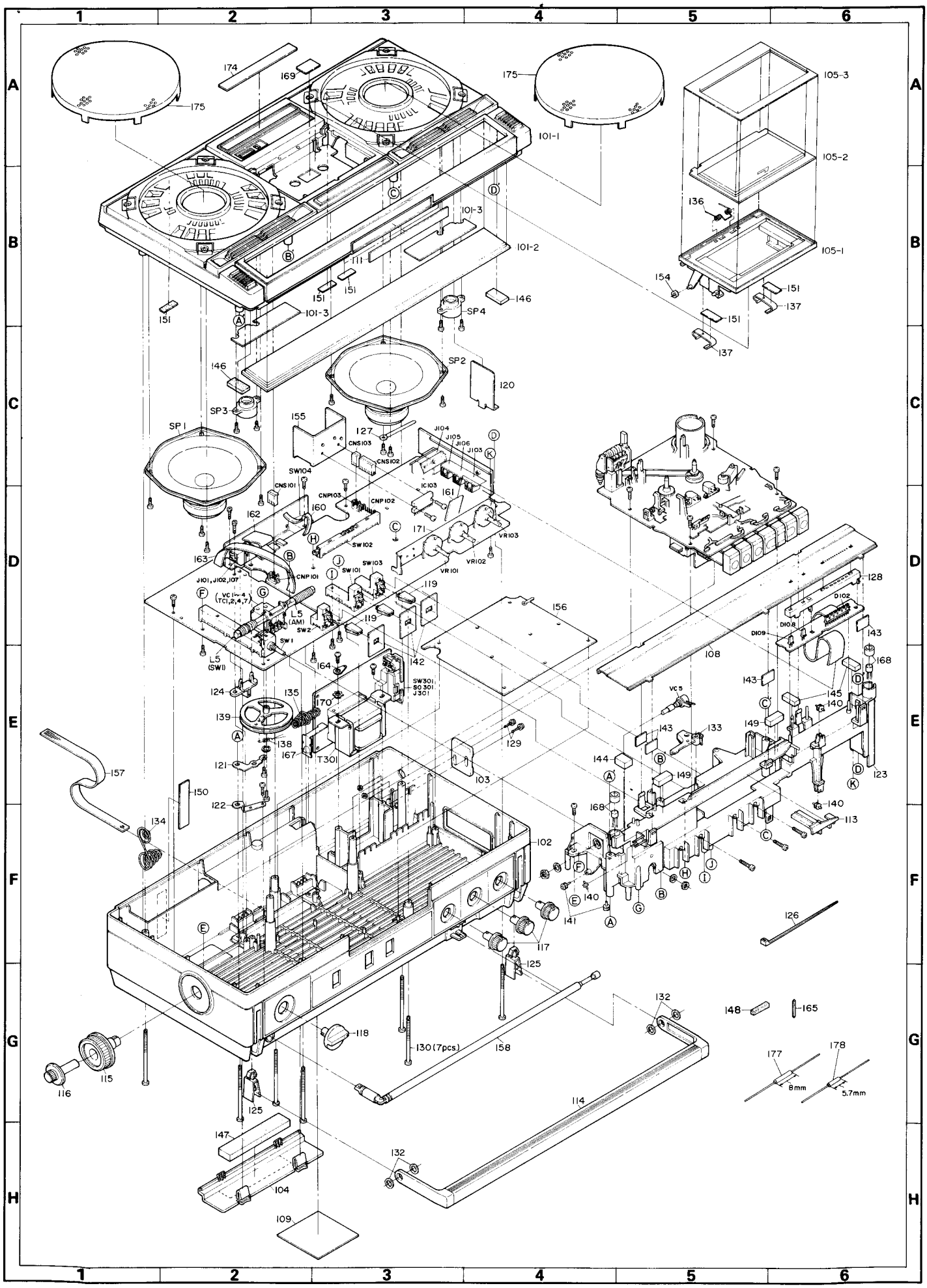
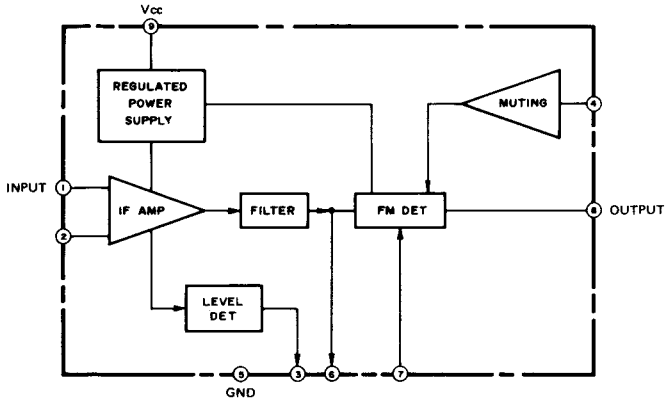


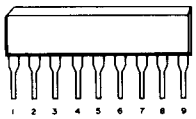
Figure 8 CABINET EXPLODED VIEW

EQUIVALENT CIRCUIT OF IC

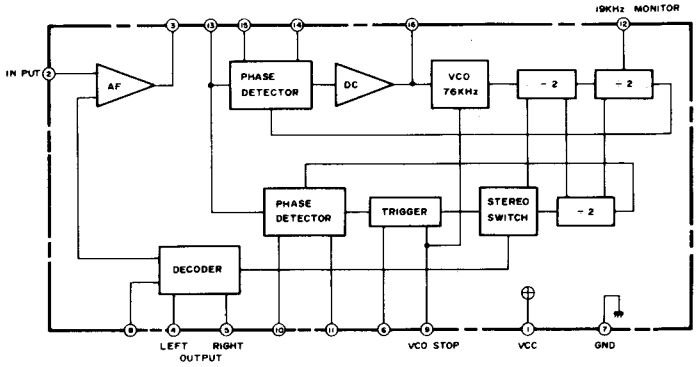
IC1: RH-IX1083AFZZ (TA7303P)



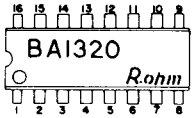
Front View



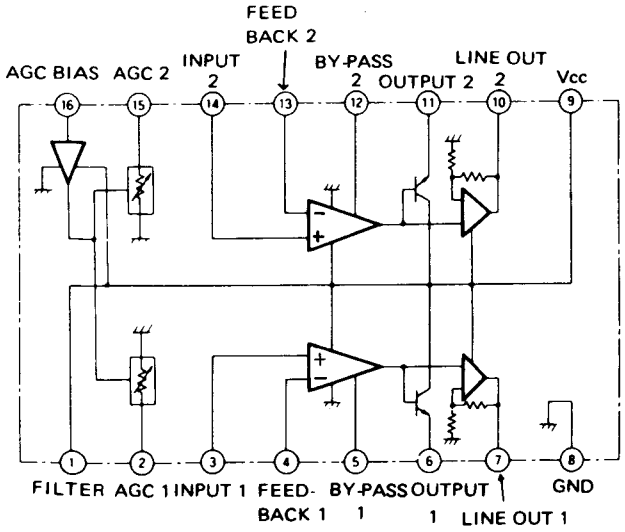
IC2: RH-IX1082AFZZ (BA1320)



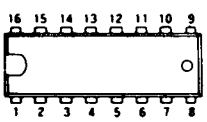
Top View



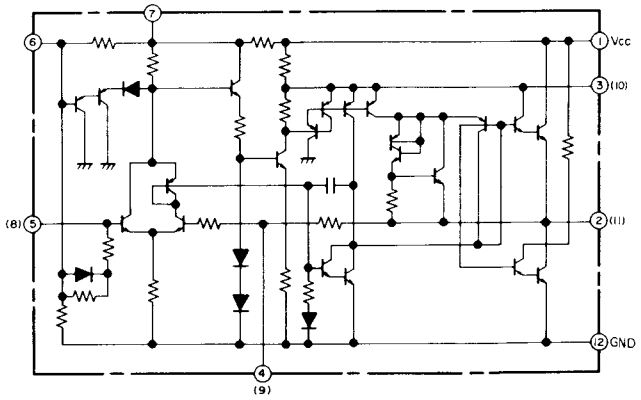
IC101: VHIM51301P/-1 (M51301P)



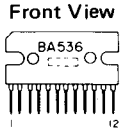
Top View



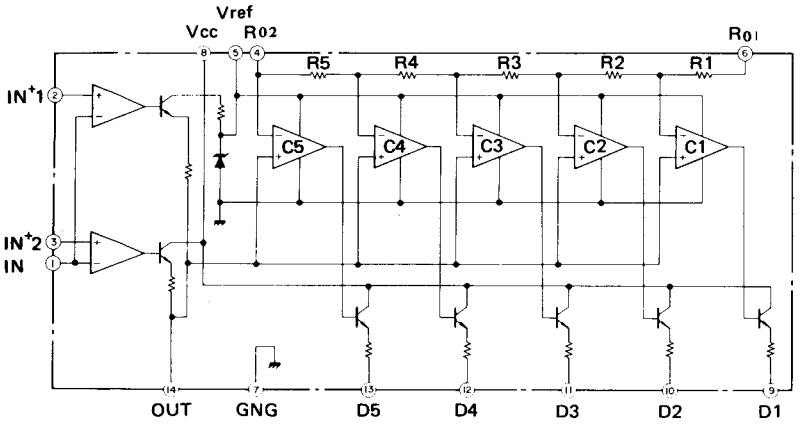
IC103: VHIBA536///-1 (BA536)



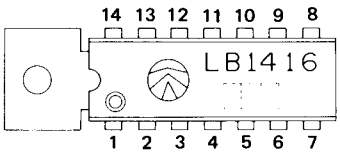
Front View



IC102: VHILB1416//-1 (LB1416)



Top View



GENERAL ALIGNMENT INSTRUCTION

Should it become necessary at any time to check the alignment of this receiver, proceed as follows;

1. Set the volume control (VR103) to maximum.
2. Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
3. Use a non-metallic alignment tool.
4. Repeat adjustments to insure good results.
5. Set the Function Selector Switch (SW101) to "radio" position.

AM IF/RF ALIGNMENT

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
			CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	AM	IF	Refer to Figure 12–1.	Exactly 455 kHz.	High end of dial. (minimum capacity)	Adjust for best "IF" curve	Adjust the AM/SW IF transformers. (T3) (T4)
2	AM	Band Coverage	Refer to Figure 12–2.	Exactly 510 kHz. (400 Hz, 30%, AM modulated)	Low end of dial. (maximum capacity).	Adjust for maximum output.	Adjust the AM oscillation coil (L7).
3	AM		Same as step 2.	Exactly 1650 kHz. (400 Hz, 30%, AM modulated)	High end of dial. (minimum capacity).	Same as step 2.	Adjust the AM oscillation trimmer (TC6).
4	AM	Tracking	Same as step 2.	Exactly 600 kHz. (400 Hz, 30%, AM modulated)	600 kHz.	Same as step 2.	Adjust the AM bar antenna coil (L5). See Note A.
5	AM		Same as step 2.	Exactly 1400 kHz. (400 Hz, 30%, AM modulated)	1400 kHz.	Same as step 2.	Adjust the AM antenna trimmer (TC3). See Note A.
6	AM	Repeat steps 2, 3, 4, and 5 until no further improvement can be made.					

7	SW1	Band Coverage	Same as step 2.	Exactly 2.25 MHz. (400 Hz, 30%, AM modulated)	Low end of dial. (maximum capacity)	Same as step 2.	Adjust the SW1 oscillation coil (L8).
8	SW1		Same as step 2.	Exactly 7.4 MHz. (400 Hz, 30%, AM modulated)	High end of dial. (minimum capacity)	Same as step 2.	Adjust the SW1 oscillation trimmer (TC7).
9	SW1	Tracking	Same as step 2.	Exactly 2.6 MHz. (400 Hz, 30%, AM modulated)	2.6 MHz.	Same as step 2.	Adjust the SW1 bar antenna coil (L5). See Note A.
10	SW1		Same as step 2.	Exactly 6.0 MHz. (400 Hz, 30%, AM modulated)	6.0 MHz.	Same as step 2.	Adjust the SW1 antenna trimmer (TC4).
11	SW1	Repeat steps 6, 7, 8 and 9 until no further improvement can be made.					
12	SW2	Band Coverage	Refer to Figure 12–3.	Exactly 7.2 MHz. (400 Hz, 30%, AM modulated)	Low end of dial. (maximum capacity)	Same as step 2.	Adjust the SW2 oscillation coil (L9).
13	SW2		Same as step 12.	Exactly 22.5 MHz. (400 Hz, 30%, AM modulated)	High end of dial. (minimum capacity)	Same as step 2.	Adjust the SW2 oscillation trimmer (TC8).
14	SW2	Tracking	Same as step 12.	Exactly 8.5 MHz. (400 Hz, 30%, AM modulated)	8.5 MHz.	Same as step 2.	Adjust the SW2 antenna coil (L6).
15	SW2		Same as step 12.	Exactly 19 MHz. (400 Hz, 30%, AM modulated)	19 MHz.	Same as step 2.	Adjust the SW2 antenna trimmer (TC5).
16	SW2	Repeat steps 12, 13, 14 and 15 until no further improvement can be made..					

Note A Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increases output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.

FM IF/RF ALIGNMENT

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
			CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	FM	IF	Refer to Figure 12–4.	Exactly 10.7 MHz.	High end of dial. (minimum capacity)	Adjust for best "S" curve	Adjust the FM IF transformers 1. (T1) 2. (T2)
2	FM	Band Coverage	Refer to Figures 12–5 and 12–7.	Exactly 87.1 MHz (400 Hz, 30%, FM modulated)	Low end of dial. (maximum capacity)	Adjust for maximum output.	Adjust the FM oscillation coils (L4).
3			Same as step 2.	Exactly 109 MHz. (400 Hz, 30%, FM modulated)	High end of dial. (minimum capacity)	Same as step 2.	Adjust the FM oscillation trimmer (TC2).
4	FM	Tracking	Same as step 2.	Exactly 88 MHz. (400 Hz, 30%, FM modulated)	88 MHz	Same as step 2.	Adjust the FM RF coils (L2, L3).
5			Same as step 2.	Exactly 108 MHz. (400 Hz, 30%, FM modulated)	108 MHz	Same as step 2.	Adjust the FM RF trimmer (TC1).
6	FM	Repeat steps 2, 3, 4 and 5 until no further improvement can be made.					

FM STEREO ALIGNMENT

Set the Band Selector Switch (SW1) to "FM" position and Tuner Mode Selector Switch (SW2) to "stereo" position.

STEP	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
	CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	Refer to Figures 12–6 and 12–7.	Exactly 98 MHz (54 dB) un modulated.	98 MHz	Adjust for 19 ± 0.1 kHz.	Adjust the semi-variable resister (VR1)

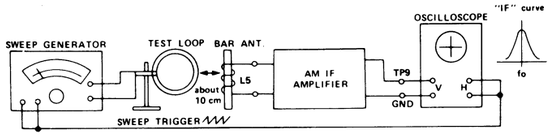


Figure 12–1

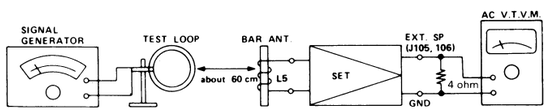


Figure 12–2

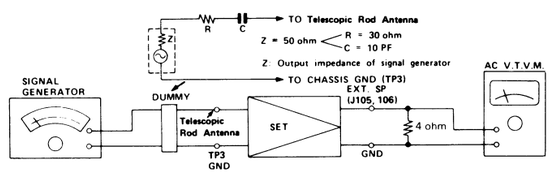


Figure 12–3

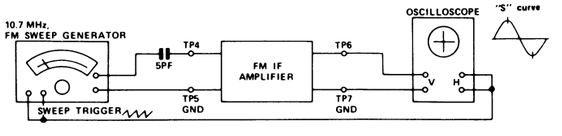


Figure 12–4

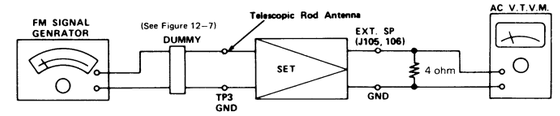


Figure 12–5

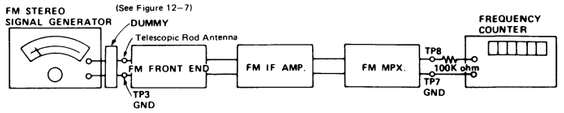


Figure 12–6

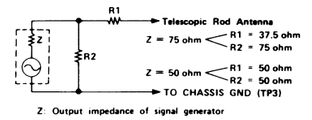


Figure 12–7 FM DUMMY

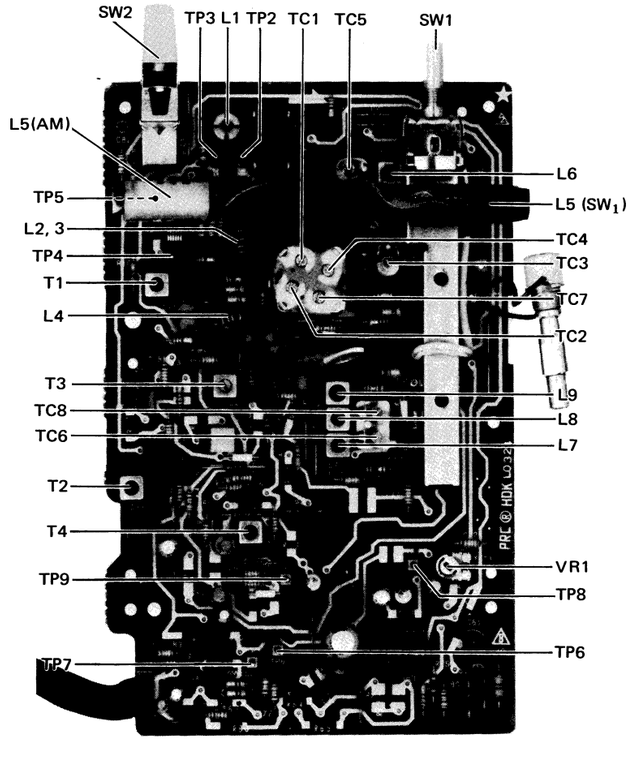
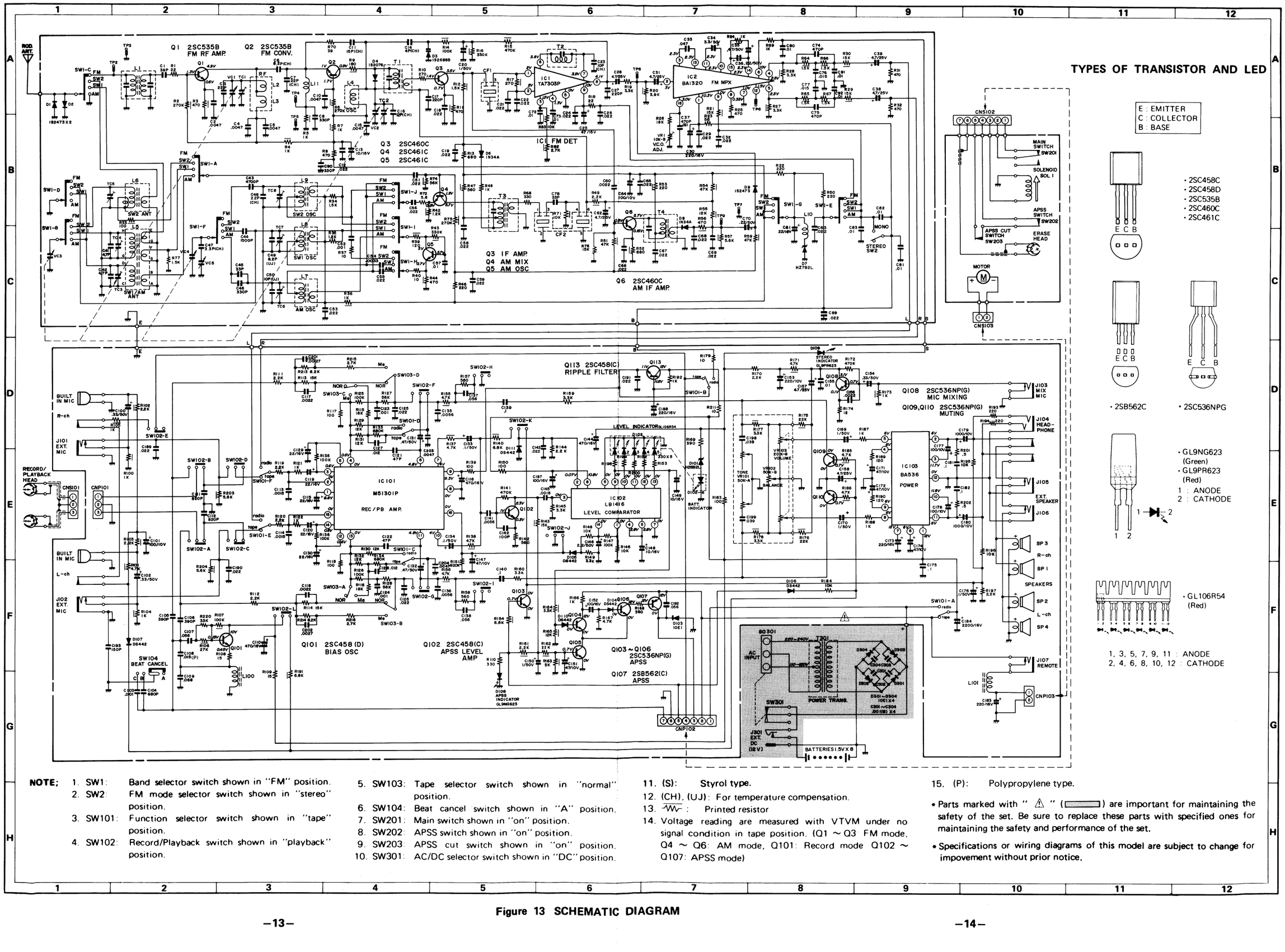


Figure 12–8 ALIGNMENT POINTS



NOTE;

1. SW1: Band selector switch shown in "FM" position.
2. SW2: FM mode selector switch shown in "stereo" position.
3. SW101: Function selector switch shown in "tape" position.
4. SW102: Record/Playback switch shown in "playback" position.
5. SW103: Tape selector switch shown in "normal" position.
6. SW104: Beat cancel switch shown in "A" position.
7. SW201: Main switch shown in "on" position.
8. SW202: APSS switch shown in "on" position.
9. SW203: APSS cut switch shown in "on" position.
10. SW301: AC/DC selector switch shown in "DC" position.
11. (S): Styrol type.
12. (CH), (UJ): For temperature compensation.
13. ⏦ : Printed resistor
14. Voltage reading are measured with VTVM under no signal condition in tape position. (Q1 ~ Q3: FM mode, Q4 ~ Q6: AM mode, Q101: Record mode Q102 ~ Q107: APSS mode)
15. (P): Polypropylene type.

* Parts marked with " ⚠ " (▭) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.
* Specifications or wiring diagrams of this model are subject to change for impovement without prior notice.

Figure 13 SCHEMATIC DIAGRAM

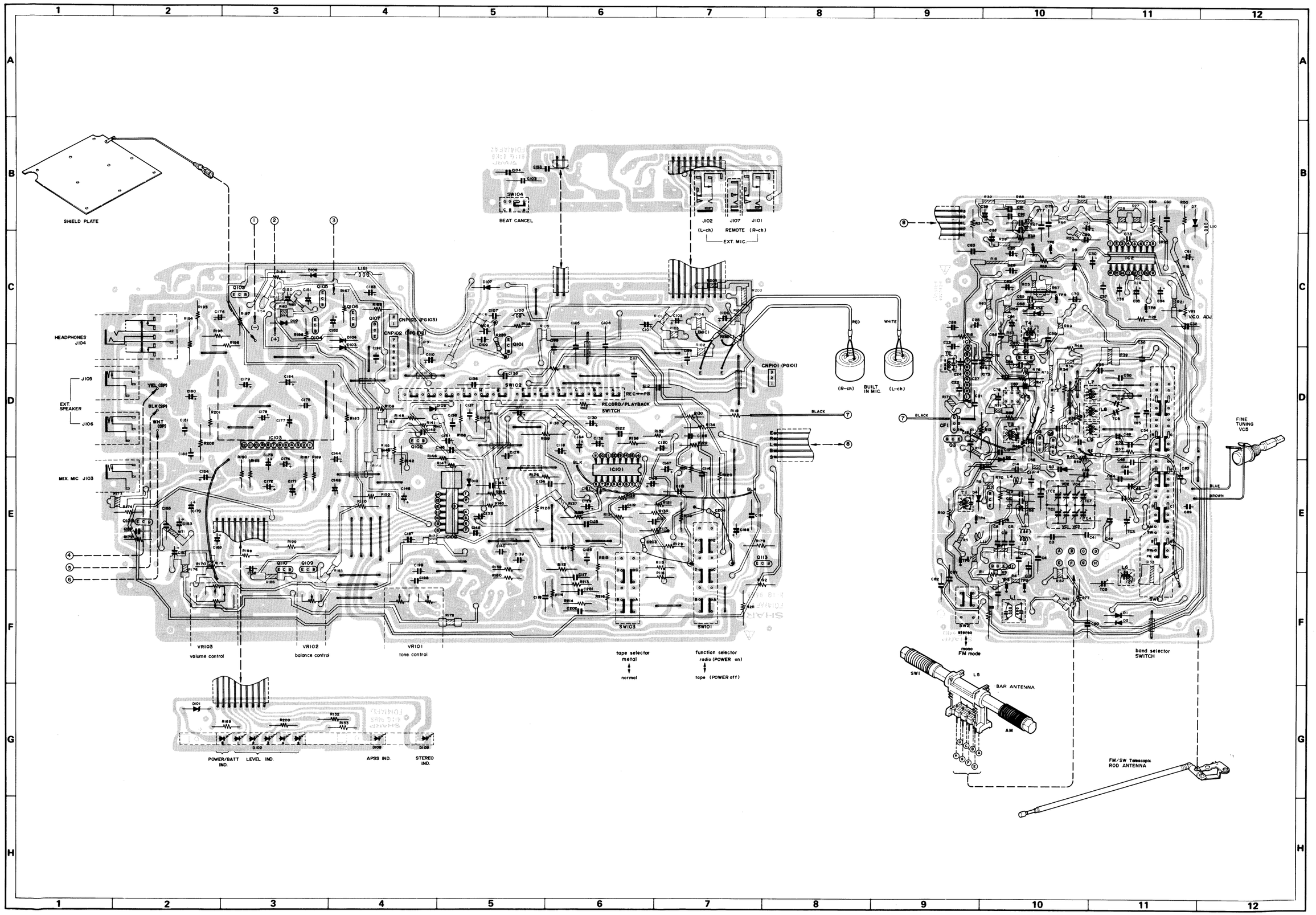


Figure 15 WIRING SIDE OF AMP AND TUNER P.W. BOARD

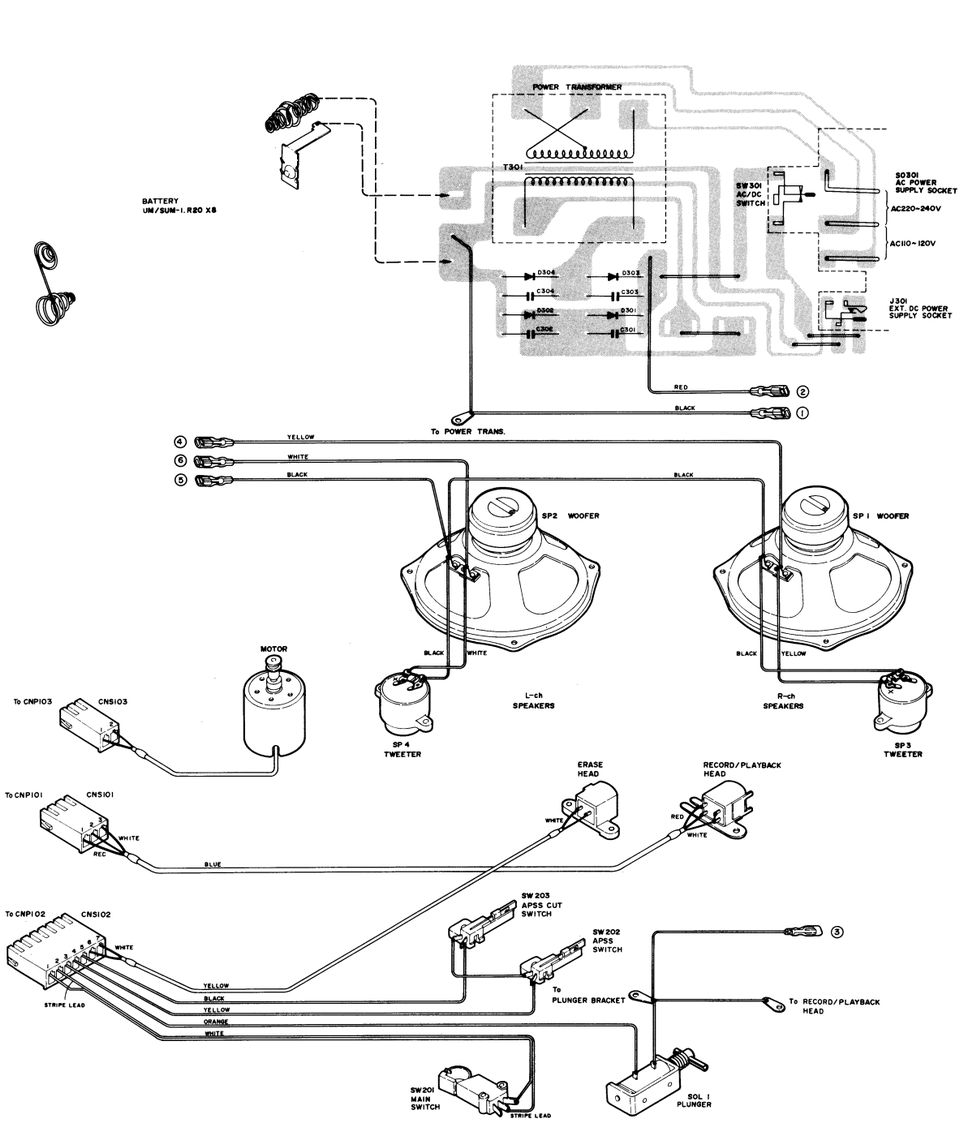


Figure 17–1 WIRING SIDE OF POWER SUPPLY P.W. BOARD

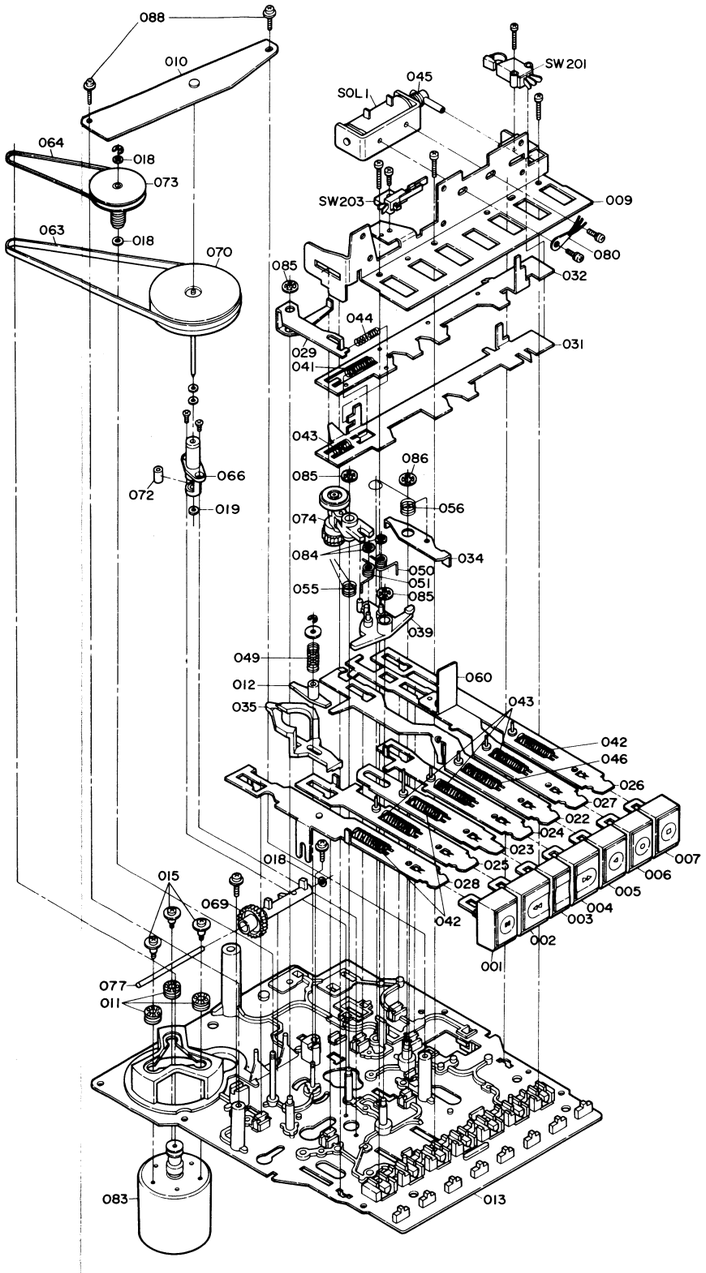


Figure 17–2 MECHANISM EXPLODED BOTTOM VIEW

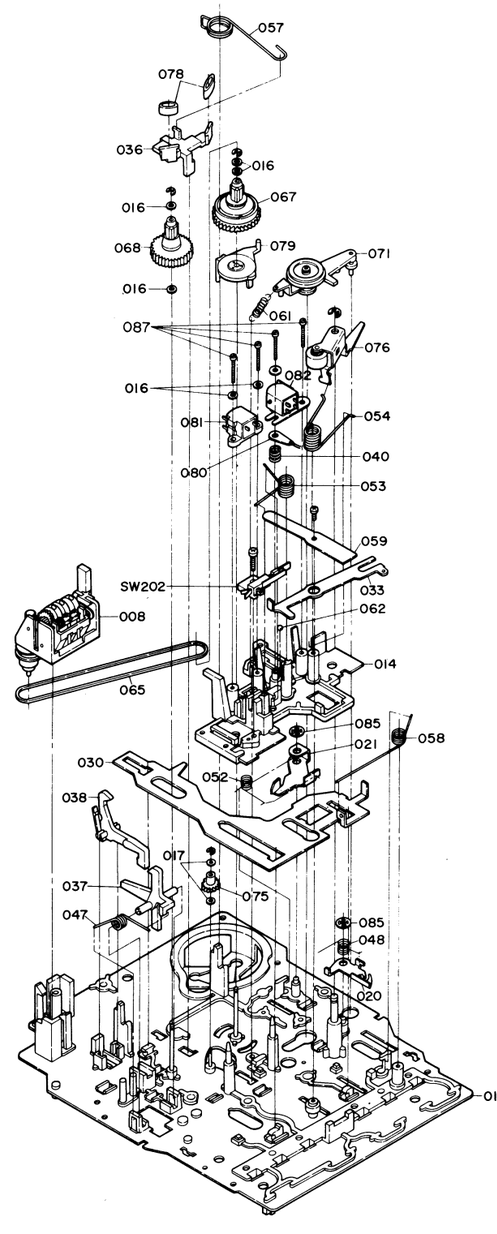


Figure 18 MECHANISM EXPLODED TOP VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly please furnish the following information.

1. MODEL NUMBER
2. REF NO.
3. PART NO.
4. DESCRIPTION

NOTES

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	PART NO.	DESCRIPTION	CODE
		INTEGRATED CIRCUITS	
IC1	RH-IX1083AFZZ	FM Detector (TA7303P)	AK
IC2	RH-IX1082AFZZ	FM Multiplex Demodulator (BA1320)	AH
IC101	VHIM51301P/-1	Record / Playback Amp. (M51301P)	AK
IC102	VHILB1416//-1	Level Comparator (LB1416)	AK
IC103	VHIBA536///-1	Power Amp. (BA536)	AP
		TRANSISTORS	
Q1	VS2SC535-B/-1	FM RF Amp. (2SC535B)	AC
Q2	VS2SC535-B/-1	FM Converter (2SC535B)	AC
Q3	VS2SC460-C/-1	FM IF Amp. (2SC460C)	AB
Q4	VS2SC461-C/-1	AM Mixer (2SC461C)	AB
Q5	VS2SC461-C/-1	AM Oscillator (2SC461C)	AB
Q6	VS2SC460-C/-1	AM IF Amp. (2SC460C)	AB
Q101	VS2SC458-D/-1	Bias Oscillator (2SC458D)	AB
Q102	VS2SC458-C/-1	APSS Level Amp. (2SC458C)	AB
Q103	VS2SC536NPG-1	APSS Muting (2SC536NPG)	AB
Q104	VS2SC536NPG-1	APSS Plunger Control (2SC536NPG)	AB
Q105	VS2SC536NPG-1	APSS Plunger Control (2SC536NPG)	AB
Q106	VS2SC536NPG-1	APSS Plunger Control (2SC536NPG)	AB
Q107	VS2SB562-C/-1	APSS Plunger Drive (2SB562C)	AD
Q108	VS2SC536NPG-1	Mic Mixing Amp (2SC536NPG)	AB
Q109	VS2SC536NPG-1	Muting (2SC536NPG)	AB
Q110	VS2SC536NPG-1	Muting (2SC536NPG)	AB
Q113	VS2SC458-C/-1	Ripple Filter (2SC458C)	AB
		DIODES	
D1	VHD1S2473//-1	Static Protector (1S2473)	AB
D2	VHD1S2473//-1	Static Protector (1S2473)	AB
D3	VHC1S2688-B1F	Varicap, FM AFC (1S2688B)	AC
D4	VHD1S2076//-1	FM Overload (1S2076)	AB
D6	VHD1N34A///-1	AM Overload (1N34A)	AB
D7	VHEHZ7B2L//-1	Zener, Voltage Stabilizer (HZ7B2L)	AB
D8	VHD1N34A///-1	AM Detector (1N34A)	AB
D9	VHD1S2473//-1	Switching (1S2473)	AB
D101	VHEHZ6B2L//-1	Zener, Voltage Stabilizer (HZ6B2L)	AB
D102 (1~6)	RH-PX1017AFZZ	LED, Power On/Battery Level Indicator/Level Indicator (GL-106R54)	AL

REF. NO.	PART NO.	DESCRIPTION	CODE
D103	VHD10E1////-1	Surge Absorber (10E1)	AC
D104	VHDDS442///-1	Static Protector (DS442)	AA
D105	VHDDS442///-1	Buffer (DS442)	AA
D106	VHDDS442///-1	Reverse Current Protector (DS442)	AA
D107	VHDDS442///-1	Reverse Current Protector (DS442)	AA
D108	RH-PX1019AFZZ	LED, APSS Indicator (GL-9NG623)	AD
D109	RH-PX1018AFZZ	LED, FM Stereo Indicator (GL-9PR623)	AC
D110	VHDDS442///-1	Static Protector (DS442)	AA
D111	VHDDS442///-1	Switching (DS442)	AA
⚠D301	VHD10E1////-1	Power Rectifier (10E1)	AC
⚠D302	VHD10E1////-1	Power Rectifier (10E1)	AC
⚠D303	VHD10E1////-1	Power Rectifier (10E1)	AC
⚠D304	VHD10E1////-1	Power Rectifier (10E1)	AC
		COILS	
L1	RCILA0455AFZZ	Band Pass Filter	AC
L2	RCILR0340AFZZ	FM RF	AA
L3	RCILR0340AFZZ	FM RF	AA
L4	RCILB0463AFZZ	FM Local Oscillator	AA
L5	RCILA0454AFZZ	Bar Antenna, AM/SW1	AK
L6	RCILA0461AFZZ	SW2 Antenna	AD
L7	RCILB0444AFZZ	AM Oscillator	AC
L8	RCILB0357AFZZ	SW1 Oscillator	AD
L9	RCILB0358AFZZ	SW2 Oscillator	AE
L10	VP-CH470K0000	Noise Suppressor, 47μH	AB
L11	RCILC0072AFZZ	Emitter Choke	AA
L100	RCILF0072AFZZ	Bias Oscillator	AC
L101	VP-CH470K0000	Noise Suppressor, 47μH	AB
		TRANSFORMERS	
T1	RCILI0157AFZZ	FM IF	AC
T2	RCILI0208AFZZ	FM IF	AC
T3	RCILI0256AFZZ	AM IF	AC
T4	RCILI0170AFZZ	AM IF	AC
⚠T301	RTRNP0747AFZZ	Power	AT
		FILTERS	
CF1	RFILF0080AFZZ	Ceramic, 10.7MHz, FM IF	AD
CF2	RFILA0074AFZZ	Ceramic, 455kHz AM IF	AE

REF. NO.	PART NO.	DESCRIPTION	CODE
		CONTROLS	
VC1, VC2, VC3, VC4, TC1, TC2, TC4, TC7	RVC-R0070AFZZ	Variable Capacitor, Tuning with Trimmer TC1: FM RF Trimmer TC2: FM Oscillator Trimmer TC4: SW1 Antenna Trimmer TC7: SW1 Oscillator Trimmer	AP
VC5	RVC-Z0051AFZZ	Fine Tuning	AG
TC3	RTO-H1007AFZZ	AM Antenna Trimmer	AC
TC5	RTO-H1007AFZZ	SW2 Antenna Trimmer	AC
TC6, TC8	RTO-H2050AFZZ	Trimmer TC6: AM OSC. Assembly; TC8: SW2 OSC.	AD
VR1	RVR-M0216AFZZ	VCO Adjust, 10K ohm (B)	AB
VR101, VR102, VR103	RVR-Z0078AFZZ	Variable Resistor with Bracket; VR101: 50K ohm (A), Tone VR102: 50K ohm (B), Balance VR103: 20K ohm (B), Volume	AL
		ELECTROLYTIC CAPACITORS	
C13	RC-EZA106AF1C	10MFD, 16V, ±20%	AB
C20	RC-EZA105AF1H	1MFD, 50V, ±20%	AB
C25	RC-EZA476AF1C	47MFD, 16V, ±20%	AB
C28	RC-EZA475AF1E	4.7MFD, 25V, ±20%	AB
C30	RC-EZV227AF1C	220MFD, 16V, ±20%	AB
C31	RC-EZA475AF1E	4.7MFD, 25V, ±20%	AB
C34	RC-EZA335AF1H	3.3MFD, 50V, ±20%	AB
C35	VCEALA1HW474M	.47MFD, 50V, ±20%	AB
C36	VCEALA1HW224M	.22MFD, 50V, ±20%	AB
C38	RC-EZA475AF1E	4.7MFD, 25V, ±20%	AB
C39	RC-EZA475AF1E	4.7MFD, 25V, ±20%	AB
C61	RC-EZA226AF1C	22MFD, 16V, ±20%	AB
C62	RC-EZA475AF1E	4.7MFD, 25V, ±20%	AB
C64	RC-EZA107AF1A	100MFD, 10V, ±20%	AB
C70	VCEALA1HW224M	.22MFD, 50V, ±20%	AB
C100	VCEALA1HW334M	.33MFD, 50V, ±20%	AB
C101	RC-EZA107AF1A	100MFD, 10V, ±20%	AB
C102	VCEALA1HW334M	.33MFD, 50V, ±20%	AB
C110	RC-EZV477AF1C	470MFD, 16V, ±20%	AC
C115	RC-EZA226AF1C	22MFD, 16V, ±20%	AB
C116	RC-EZV477AF1C	470MFD, 16V, ±20%	AC
C119	RC-EZA226AF1C	22MFD, 16V, ±20%	AB
C120	RC-EZA226AF1C	22MFD, 16V, ±20%	AB
C129	RC-EZA226AF1C	22MFD, 16V, ±20%	AB
C130	RC-EZA226AF1C	22MFD, 16V, ±20%	AB
C131	VCEALA1HW474M	.47MFD, 50V, ±20%	AB
C132	VCEALA1HW474M	.47MFD, 50V, ±20%	AB
C133	VCEALA1HW104M	.1MFD, 50V, ±20%	AB
C134	VCEALA1HW104M	.1MFD, 50V, ±20%	AB
C144	RC-EZV477AF1C	470MFD, 16V, ±20%	AC
C146	VCEALA1HW225M	2.2MFD, 50V, ±20%	AB
C147	RC-EZA476AF1A	47MFD, 10V, ±20%	AB
C148	RC-EZA106AF1C	10MFD, 16V, ±20%	AB
C149	VCEALA1CW106M	10MFD, 16V, ±20%	AB
C150	RC-EZA105AF1H	1MFD, 50V, ±20%	AB
C151	RC-EZA476AF1A	47MFD, 10V, ±20%	AB
C152	RC-EZA107AF1C	100MFD, 16V, ±20%	AB
C153	RC-EZA227AF1A	220MFD, 10V, ±20%	AC
C154	VCEALA1HW334M	.33MFD, 50V, ±20%	AB
C157	RC-EZA475AF1E	4.7MFD, 25V, ±20%	AB
C158	RC-EZA475AF1E	4.7MFD, 25V, ±20%	AB
C169	RC-EZA105AF1H	1MFD, 50V, ±20%	AB
C170	RC-EZA105AF1H	1MFD, 50V, ±20%	AB
C171	RC-EZA476AF1A	47MFD, 10V, ±20%	AB
C172	RC-EZA476AF1A	47MFD, 10V, ±20%	AB
C173	RC-EZV227AF1C	220MFD, 16V, ±20%	AB
C174	RC-EZA476AF1A	47MFD, 10V, ±20%	AB
C176	VCEALA1HW104M	.1MFD, 50V, ±20%	AB
C177	RC-EZA107AF1A	100MFD, 10V, ±20%	AB
C178	RC-EZA107AF1A	100MFD, 10V, ±20%	AB
C179	RC-EZV108AF1A	1000MFD, 10V, ±20%	AD
C180	RC-EZV108AF1A	1000MFD, 10V, ±20%	AD
C183	RC-EZV227AF1C	220MFD, 16V, ±20%	AB
C184	RC-EZW228AF1C	2200MFD, 16V, ±20%	AE
C187	RC-EZA107AF1C	100MFD, 16V, ±20%	AB
C188	RC-EZV227AF1C	220MFD, 16V, ±20%	AB
		CAPACITORS	
C1	VCCSAT1HL390J	39PF, 50V, ±5%, Ceramic	AA
C2	VCTYAT1HX472N	.0047MFD, 50V, ±30%, Semiconductor	AA
C3	VCCSAT1HL220J	22PF, 50V, ±5%, Ceramic	AA
C4	VCTYAT1HX472N	.0047MFD, 50V, ±30%, Semiconductor	AA
C5	VCTYAT1HX472N	.0047MFD, 50V, ±30%, Semiconductor	AA
C6	VCCCAT1HH8R2D	8.2PF, 50V, ±0.5PF, Ceramic, CH (Black)	AA
C7	VCCCAT1HH220J	22PF, 50V, ±5%, Ceramic, CH (Black)	AA
C8	VCKYAT1HB331K	330PF, 50V, ±10%, Ceramic	AA
C10	VCTYAT1HV472K	.0047MFD, 50V, ±10%, Semiconductor	AA
C11	VCCCPA1HH150J	15PF, 50V, ±5%, Ceramic, CH (Black)	AA
C12	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C14	VCCCPA1HH4R0C	4PF, 50V, ±0.25PF, Ceramic, CH (Black)	AA
C15	VCTYAT1HV472K	.0047MFD, 50V, ±10%, Semiconductor	AA
C16	VCCCAT1HH120J	12PF, 50V, ±5%, Ceramic, CH (Black)	AA
C17	VCKYAT1HB221K	220PF, 50V, ±10%, Ceramic	AA
C18	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C19	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C21	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C22	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C23	VCCCPA1HH100D	10PF, 50V, ±0.5PF, Ceramic, CH (Black)	AA
C24	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C26	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C27	VCKYAT1HB221K	220PF, 50V, ±10%, Ceramic	AA
C29	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C32	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C33	VCTYPA1EX473M	.047MFD, 25V, ±20%, Semiconductor	AB
C37	VCQSMA1HL471J	470PF, 50V, ±5%, Styrol	AB
C41	VCCSAT1HL4R7C	4.7PF, 50V, ±0.25PF, Ceramic	AA
C42	VCCSAT1HL4R7C	4.7PF, 50V, ±0.25PF, Ceramic	AA
C43	VCTYAT1HV472K	4700PF, 50V, ±10%, Semiconductor	AA
C44	VCTYAT1HV152K	1500PF, 50V, ±10%, Semiconductor	AA
C45	VCCSAT1HL330J	33PF, 50V, ±5%, Ceramic	AA

REF. NO.	PART NO.	DESCRIPTION	CODE
C46	VCCSPA1HL331J	330PF, 50V, ±5%, Ceramic	AA
C47	VCCCAT1HH3R3C	3.3PF, 50V, ±0.25PF, Ceramic, CH (Black)	AA
C48	VCCCAT1HH2R2C	2.2PF, 50V, ±0.25PF, Ceramic, CH (Black)	AA
C49	VCCUAT1HJ8R2D	8.2PF, 50V, ±0.5PF, Ceramic, UJ (Purple)	AA
C50	VCCUAT1HJ100J	10PF, 50V, ±5%, Ceramic, UJ (Purple)	AA
C51	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C52	VCKYAT1HB102K	.001MFD, 50V, ±10%, Ceramic	AA
C53	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C54	VCTYAT1HV332K	.0033MFD, 50V, ±10%, Semiconductor	AA
C55	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C56	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C57	VCTYPA1EX103M	.01MFD, 25V, ±20%, Semiconductor	AA
C58	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C59	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C60	VCTYAT1HX222M	.0022MFD, 50V, ±20%, Semiconductor	AA
C63	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C65	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C66	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C67	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C68	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C69	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C72	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C73	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C74	VCKYAT1HB471K	470PF, 50V, ±10%, Ceramic	AA
C75	VCKYAT1HB471K	470PF, 50V, ±10%, Ceramic	AA
C76	VCTYAT1EX153N	.015MFD, 25V, ±30%, Semiconductor	AA
C77	VCTYAT1EX153N	.015MFD, 25V, ±30%, Semiconductor	AA
C78	VCCSPA1HL330J	33PF, 50V, ±5%, Ceramic	AA
C80	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C81	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C82	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C83	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C89	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C90	VCKYAT1HB331K	330PF, 50V, ±10%, Ceramic	AA
C91	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C92	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA
C103	VCKYAT1HB102K	.001MFD, 50V, ±10%, Ceramic	AA
C104	VCKYAT1HB681K	680PF, 50V, ±10%, Ceramic	AA
C105	VCKYAT1HB391K	390PF, 50V, ±10%, Ceramic	AA
C106	VCKYAT1HB391K	390PF, 50V, ±10%, Ceramic	AA
C107	VCTYPA1EX563K	.056MFD, 25V, ±10%, Semiconductor	AA
C108	VCQPKA2AA153J	.015MFD, 100V, ±5% Polypropylene	
C109	VCTYPA1EX683K	.068MFD, 25V, ±10%, Semiconductor	AB
C111	VCKYAT1HB821K	820PF, 50V, ±10%, Ceramic	AA
C112	VCKYAT1HB821K	820PF, 50V, ±10%, Ceramic	AA
C113	VCTYAT1HV152K	.0015MFD, 50V, ±10%, Semiconductor	AA
C114	VCTYAT1HV152K	.0015MFD, 50V, ±10%, Semiconductor	AA
C117	VCTYAT1HV222K	.0022MFD, 50V, ±10%, Semiconductor	AA
C118	VCTYAT1HV222K	.0022MFD, 50V, ±10%, Semiconductor	AA
C121	VCCSAT1HL470J	47PF, 50V, ±5%, Ceramic	AA
C122	VCCSAT1HL470J	47PF, 50V, ±5%, Ceramic	AA
C123	VCKYAT1HB102K	.001MFD, 50V, ±10%, Ceramic	AA
C124	VCKYAT1HB102K	.001MFD, 50V, ±10%, Ceramic	AA
C125	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C126	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C127	VCTYPA1EX123K	.012MFD, 25V, ±10%, Semiconductor	AA
C128	VCTYPA1EX123K	.012MFD, 25V, ±10%, Semiconductor	AA
C135	VCTYAT1EX562M	.0056MFD, 25V, ±20%, Semiconductor	AA
C136	VCTYAT1EX562M	.0056MFD, 25V, ±20%, Semiconductor	AA
C137	VCTYPA1EX563K	.056MFD, 25V, ±10%, Semiconductor	AA
C138	VCTYPA1EX563K	.056MFD, 25V, ±10%, Semiconductor	AA
C139	VCTYPA1NX104M	.1MFD, 12V, ±20%, Semiconductor	AB
C140	VCTYPA1NX104M	.1MFD, 12V, ±20%, Semiconductor	AB
C141	VCTYPA1EX562M	.0056MFD, 25V, ±20%, Semiconductor	AA
C142	VCCSAT1HL101J	100PF, 50V, ±5%, Ceramic	AA
C143	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C145	VCTYAT1HV182K	.0018MFD, 50V, ±10%, Semiconductor	AA
C155	VCTYAT1EX103M	.01MFD, 25V, ±20%, Semiconductor	AA
C156	VCTYAT1HX222M	.0022MFD, 50V, ±20% Semiconductor	AA
C175	VCTYPV1EX104M	.1MFD, 25V, ±20%, Semiconductor	AB
C181	VCTYPA1NX104M	.1MFD, 12V, ±20%, Semiconductor	AB
C182	VCTYPA1NX104M	.1MFD, 12V, ±20%, Semiconductor	AB
C189	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C190	VCTYPA1EX223M	.022MFD, 25V, ±20%, Semiconductor	AA
C191	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA
C192	VCTYPA1EX563K	.056MFD, 25V, ±10%, Semiconductor	AA
C193	VCKYAT1HB151K	150PF, 50V, ±10%, Ceramic	AA
C198	VCTYPA1EX393K	.039MFD, 25V, ±10%, Semiconductor	AB
C199	VCTYPA1EX393K	.039MFD, 25V, ±10%, Semiconductor	AB
C201	VCTYAT1HV272K	.0027MFD, 50V, ±10%, Semiconductor	AA
C202	VCTYAT1HV272K	.0027MFD, 50V, ±10%, Semiconductor	AA
C203	VCTYAT1HX472N	.0047MFD, 25V, ±30%, Semiconductor	AA
C204	VCTYAT1HX472N	.0047MFD, 25V, ±30%, Semiconductor	AA
⚠C301	VCKYAT1HD102M	.001MFD, 50V, ±20%, Ceramic	AA
⚠C302	VCKYAT1HD102M	.001MFD, 50V, ±20%, Ceramic	AA
⚠C303	VCKYAT1HD102M	.001MFD, 50V, ±20%, Ceramic	AA
⚠C304	VCKYAT1HD102M	.001MFD, 50V, ±20%, Ceramic	AA

RESISTORS

(All resistors are 1/4W, ±5%, Carbon type.)

R1	VRD-ST2EE220J	22 ohm	AA
R8	VRD-ST2EE471J	470 ohm	AA
R10	VRD-ST2EE271J	270 ohm	AA
R13	VRD-ST2EE681J	680 ohm	AA
R18	VRD-ST2EE220J	22 ohm	AA
R19	VRD-ST2EE332J	3.3K ohm	AA
R22	VRD-ST2EE221J	220 ohm	AA
R23	VRD-ST2EE560J	56 ohm	AA
R25	VRD-ST2EE471J	470 ohm	AA
R26	VRD-ST2EE183J	18K ohm	AA
R31	VRD-ST2EE471J	470 ohm	AA
R32	VRD-ST2EE471J	470 ohm	AA
R34	VRD-ST2EE152J	1.5K ohm	AA
R35	VRD-ST2EE122J	1.2K ohm	AA
R37	VRD-ST2EE100J	10 ohm	AA
R40	VRD-ST2EE100J	10 ohm	AA
R46	VRD-ST2EE221J	220 ohm	AA
R48	VRD-ST2EE102J	1K ohm	AA
R50	VRD-ST2EE221J	220 ohm	AA
R68	VRD-ST2EE331J	330 ohm	AA
R69	VRD-ST2EE102J	1K ohm	AA
R70	VRD-ST2EE390J	39 ohm	AA
R72	VRD-ST2EE5R6J	5.6 ohm	AA
R76	VRD-ST2EE153J	15Kohm	AA
R77	VRD-ST2EE152J	1.5Kohm	AA
R108	VRD-ST2EE150J	15 ohm	AA
R109	VRD-ST2EE150J	15 ohm	AA
R110	VRD-ST2EE331J	330 ohm	AA
R111	VRD-ST2EE222J	2.2K ohm	AA
R112	VRD-ST2EE222J	2.2K ohm	AA
R113	VRD-ST2EE153J	15K ohm	AA
R114	VRD-ST2EE153J	15K ohm	AA
R115	VRD-ST2EE183J	18K ohm	AA
R116	VRD-ST2EE183J	18K ohm	AA
R117	VRD-ST2EE101J	100 ohm	AA
R118	VRD-ST2EE101J	100 ohm	AA
R119	VRD-ST2EE222J	2.2K ohm	AA
R120	VRD-ST2EE222J	2.2K ohm	AA
R121	VRD-ST2EE102J	1K ohm	AA
R122	VRD-ST2EE102J	1K ohm	AA
R125	VRD-ST2EE104J	100K ohm	AA
R126	VRD-ST2EE104J	100K ohm	AA
R127	VRD-ST2EE563J	56K ohm	AA
R128	VRD-ST2EE563J	56K ohm	AA
R129	VRD-ST2EE123J	12K ohm	AA
R130	VRD-ST2EE123J	12K ohm	AA
R131	VRD-ST2EE123J	12K ohm	AA
R132	VRD-ST2EE123J	12K ohm	AA
R133	VRD-ST2EE684J	680K ohm	AA
R134	VRD-ST2EE684J	680K ohm	AA
R135	VRD-ST2EE104J	100K ohm	AA
R136	VRD-ST2EE104J	100K ohm	AA
R139	VRD-ST2EE101J	100 ohm	AA
R141	VRD-ST2EE474J	470K ohm	AA
R142	VRD-ST2EE561J	560 ohm	AA
R144	VRD-ST2EE222J	2.2K ohm	AA
R145	VRD-ST2EE332J	3.3K ohm	AA
R146	VRD-ST2EE103J	10K ohm	AA
R147	VRD-ST2EE104J	100K ohm	AA
R148	VRD-ST2EE103J	10K ohm	AA
R149	VRD-ST2EE332J	3.3K ohm	AA
R150	VRD-ST2EE101J	100 ohm	AA
R151	VRD-ST2EE824J	820K ohm	AA
R152	VRD-ST2EE331J	330 ohm	AA
R153	VRD-ST2EE331J	330 ohm	AA
R157	VRD-ST2EE561J	560 ohm	AA
R158	VRD-ST2EE561J	560 ohm	AA
R159	VRD-ST2EE332J	3.3K ohm	AA
R160	VRD-ST2EE332J	3.3K ohm	AA
R166	VRD-ST2EE102J	1K ohm	AA
R167	VRD-ST2EE472J	4.7K ohm	AA
R168	VRD-ST2EE561J	560 ohm	AA
R169	VRD-ST2EE391J	390 ohm	AA
R170	VRD-ST2EE222J	2.2K ohm	AA
R172	VRD-ST2EE474J	470K ohm	AA
R174	VRD-ST2EE120J	12 ohm	AA
R179	VRD-ST2EE100J	10 ohm	AA
R183	VRD-ST2EE101J	100 ohm	AA
R184	VRD-ST2EE103J	10K ohm	AA
R187	VRD-ST2EE102J	1K ohm	AA
R188	VRD-ST2EE102J	1K ohm	AA
R189	VRD-ST2EE121J	120 ohm	AA
R190	VRD-ST2EE121J	120 ohm	AA
R192	VRD-ST2EE102J	1K ohm	AA
R193	VRD-ST2EE221J	220 ohm	AA
R194	VRD-ST2EE221J	220 ohm	AA
R195	VRD-ST2EE103J	10K ohm	AA
R196	VRD-ST2EE103J	10K ohm	AA
R197	VRD-ST2EE222J	2.2K ohm	AA
R198	VRD-ST2EE331J	330 ohm	AA
R199	VRD-ST2EE331J	330 ohm	AA
R200	VRD-ST2EE331J	330 ohm	AA
R201	VRD-ST2EE0R5J	.5 ohm	AA
R202	VRD-ST2EE0R5J	.5 ohm	AA
R211	VRD-ST2EE100J	10 ohm	AA
R213	VRD-ST2EE822J	8.2K ohm	AA
R214	VRD-ST2EE822J	8.2K ohm	AA
R215	VRD-ST2EE272J	2.7K ohm	AA
R216	VRD-ST2EE272J	2.7K ohm	AA
R220	VRD-ST2EE333J	33K ohm	AA

MECHANICAL PARTS

001	JKNBM0326AFSB	Key, Pause	AE
002	JKNBM0327AFSB	Key, Fast-forward	AE
003	JKNBM0328AFSB	Key, APSS Cut	AE
004	JKNBM0329AFSB	Key, Rewind	AE
005	JKNBM0330AFSB	Key, Playback	AE
006	JKNBM0331AFSB	Key, Record	AE
007	JKNBM0332AFSB	Key, Stop/Eject	AE
008	KCOUB0091AFZZ	Digital Tape Counter	AK
009	LANGF0537AFZZ	Bracket, Plunger	AF
010	LANGF0538AFZZ	Bracket, Flywheel	AC
011	LBSHS0001AG00	Cushion Rubber, Motor	AA
012	LBSHZ0054AFZZ	Collar, Auto Stop Actuating Lever	AA
013	LCHSM0326AFZZ	Main-chassis	
014	LCHSS0148AFZZ	Sub-chassis	
015	LX-BZ0219AFFD	Screw, Motor Retaining	AA
016	LX-WZ5018AGZZ	Washer, φ2.1	AA
017	LX-WZ5020AGZZ	Washer, φ1.7	AA
018	LX-WZ5037AGZZ	Washer, φ2.6	AA

REF. NO.	PART NO.	DESCRIPTION	CODE
019	LX-WZ9053AFZZ	Washer, Capstan Oil Cut	AA
020	MLEVF0802AFZZ	Lever, Pause Lock	AB
021	MLEVF0817AFFW	Lever, Auto Stop Killer	AC
022	MLEVF0989AFZZ	Lever, Playback	AC
023	MLEVF0990AFZZ	Lever, APSS Cut	AC
024	MLEVF0991AFZZ	Lever, Rewind	AC
025	MLEVF0992AFZZ	Lever, Fast-forward	AC
026	MLEVF0993AFZZ	Lever, Stop/Eject	AC
027	MLEVF0994AFZZ	Lever, Record	AC
028	MLEVF0995AFZZ	Lever, Pause	AC
029	MLEVF0996AFZZ	Lever, Lock Release	AC
030	MLEVF0997AFZZ	Lever, APSS	AD
031	MLEVF0998AFZZ	Lever, Function Lever Lock	AD
032	MLEVF0999AFZZ	Lever, APSS Lock	AD
033	MLEVF1000AFZZ	Lever, Sub-chassis Return	AB
034	MLEVF1003AFZZ	Lever, Record Safety	AC
035	MLEVP0110AFZZ	Lever, Auto Stop Actuating	AC
036	MLEVP0115AFZZ	Lever, Brake	AC
037	MLEVP0163AFZZ	Lever, Cassette Holder Lock	AB
038	MLEVP0164AFZZ	Lever, Erase Proof	AB
039	MLEVP0165AFZZ	Lever, Fast-forward/Rewind Shift	AB
040	MSPRC0031AGMN	Spring, Head Azimuth Adjust	AA
041	MSPRC0161AFFJ	Spring, APSS Lock Lever	AA
042	MSPRC0163AFFJ	Spring, Stop/Eject Lever, APSS Cut Lever, Pause Lever	AA
043	MSPRC0164AFFJ	Spring, Function Lever Lock Lever, Record Lever, Rewind Lever, Fast-forward Lever	AA
044	MSPRC0167AFFJ	Spring, Lock Release Lever	AA
045	MSPRC0173AFFJ	Spring, Plunger	AA
046	MSPRC0200AFFJ	Spring, Playback Lever	AA
047	MSPRD0182AFFJ	Spring, Cassette Holder Lock Lever	AA
048	MSPRD0185AFFJ	Spring, Pause Lock Lever	AA
049	MSPRD0187AFFJ	Spring, Auto Stop Actuating Lever Collar	AB
050	MSPRD0189AFFJ	Spring Fast-forward/Rewind Shift Lever	AA
051	MSPRD0190AFFJ	Spring, Fast-forward/Rewind Shift Lever	AA
052	MSPRD0192AFFJ	Spring, Auto Stop Killer Lever	AA
053	MSPRD0233AFFJ	Spring, Over Stroke Absorbing	AA
054	MSPRD0234AFFJ	Spring, Pressure Roller	AA
055	MSPRD0235AFFJ	Spring, Fast-forward/Rewind Roller	AA
056	MSPRD0252AFFJ	Spring, Record Safety Lever	AB
057	MSPRD0253AFFJ	Spring, Brake Lever	AB
058	MSPRD0254AFFJ	Spring, APSS Lever	AB
059	MSPRP0225AFFJ	Plate Spring, Sub-chassis	AB
060	MSPRP0226AFFJ	Plate Spring, Record Lever	AB
061	MSPRT0621AFFJ	Spring, Take-up Idler	AA
062	NBALS0052AFZZ	Steel Ball, ϕ2.5	AA
063	NBLTH0070AFZZ	Belt, Drive	AC
064	NBLTK0151AFZZ	Belt, Auto Stop	AB
065	NBLTK0152AFZZ	Belt, Digital Tape Counter	AC
066	NBRGC0061AFZZ	Bearing, Capstan	AE
067	NDAIR0138AFSA	Turntable, Take-up	AF
068	NDAIR0139AFSA	Turntable, Supply	AD
069	NDRM-0153AFZZ	Worm Wheel, Auto Stop	AE
070	NFLYC0079AFZZ	Flywheel	AG
071	NIDR-0068AFZZ	Idler, Take-up	AE
072	NPLYR0050AFZZ	Pulley, Take-up	AB
073	NPLYR0060AFZZ	Pulley, Worm	AE
074	NROLW0012AFZZ	Roller, Fast-forward/Rewind	AG
075	NROLX0013AFZZ	Gear, Rewind	AB
076	NROLY0030AFZZ	Pressure Roller Assembly	AE
077	NSFTN0004AFFW	Shaft, Auto Stop Worm Wheel	AC
078	PCUSG0086AF00	Rubber, Brake Lever	AB
079	PGIDM0064AFZZ	Guide, Atuo Stop Actuating Lever	AB
080	QCNW-0645AFZZ	Terminal Tip with Lead	AD
081	RHEDA0083AFZZ	Head, Erase	AL
082	RHEDH0082AFZZ	Head, Record/Playback	AP
083	RMOTV0080AFZZ	Motor with Connecting Socket (CNS103)	AU
084	LSTWC2001AFZZ	Stop Ring, ϕ2	AA
085	LSTWC3002AFZZ	Stop Ring, ϕ3	AA
086	LSTWC4004AFZZ	Stop Ring, ϕ4	AA
087	LX-BZ0285AFFD	Screw, Head Retaining	AA
088	LX-HZ0056AFFD	Screw, Flwheel Bracket Retaining	AA

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION	CODE
	GCAB-1047AFSA	Front Cabinet Assembly	BD
⚠101-1	GCABA1534AFSA	Front Cabinet	AY
101-2	HPNLD1186AFSA	Window, Dial Scale	AF
101-3	PFLT-0392AF00	Felt, Speaker (Tweeter)	AA
⚠102	GCABB1575AFSA	Back Cabinet	AX
⚠103	GCOVH1171AFSB	Panel, AC Power Supply Socket	AB
104	GFTAB1116AFSB	Lid, Battery Compartment	AD
	GFTAC1160AFSA	Cassette Holder Assembly	AP
105-1	GFTAC1117AFSA	Holder, Cassette	AH
105-2	GFTAC1116AFSA	Window Cassette Holder	AD
105-3	HDECB0159AFSA	Decoration Plate, Cassette Holder	AG
108	HDALM0319AFSA	Plate, Dial Scale	AM
⚠109	HINDP0342AFSA	Indication Plate, Spec.	
⚠	HINDP0343AFSA	Indication Plate, Spec. (For PX)	
111	HINDM1355AFSA	Indication Plate, Mechanism Control	AB
113	HSSND0263AFSA	Dial Pointer	AC
114	JHNDG1069AFSB	Handle	AP
115	JKNBK0195AFSA	Knob, Tuning Control	AF
116	JKNBK0196AFSA	Knob, Fine Tuning Control	AE
117	JKNBK0197AFSA	Knob, Volume Control, Balance Control, Tone Control	AD
118	JKNBK0198AFSA	Knob, Band Selector	AE
119	JKNBP0099AFSA	Knob, Tape Selector, Function Selector, FM Mode Selector	AD
120	LANGA0078AFFW	Holder, Socket	AB
121	LANGR0495AFFW	Bracket, Telescopic Rod Antenna	AB
122	LANGR0496AFFW	Bracket, Telescopic Rod Antenna	AB
123	LHLDF1230AFZZ	Frame	AM
124	LHLDF1231AFZZ	Holder, P.W.B.	AB
125	LHLDL1050AFSA	Holder, Handle	AB
126	LHLDW1075AFZZ	Wire Holder	AA
127	LHLDW9003CEZZ	Wire Holder	AA
128	LHLDZ1102AFSA	Holder, LED	AC
129	LX-BZ0286AFFF	Screw, Special	AA
130	LX-CZ0002AFZZ	Screw, ϕ4 x 70mm	AB
132	LX-WZ1055AFZZ	Washer, Handle Retaining	AA
133	MLEVP0166AFZZ	Lever, Record Interlocking	AC
134	MSPRC0190AFFJ	Spring, Battery	AC
135	MSPRC0192AFFJ	Spring, Battery	AB
136	MSPRD0237AFFJ	Spring, Cassette Holder Opening	AB
137	MSPRP0227AFFJ	Plate Spring, Cassette Holder	AA
138	MSPRT0003AGFW	Spring, Dial Cord	AA
139	NDRM-0159AFZZ	Drum, Dial Cord	AC
140	NPLYB0050AFZZ	Pulley, Dial Cord	AA
141	NPLYB0051AFZZ	Pulley, Dial Cord	AA
142	PCOVM1057AF00	Felt, Tape Selector Switch, Function Selector Switch, FM Mode Selector Switch	AA
143	PCOVZ9055AF00	Felt, 18mm x 15mm	AA
144	PCUSG0111AF00	Cushion, Dial Scale Plate	AA
145	PCUSG0113AF00	Cushion, LED, 16mm x 9mm x 10mm	AA
146	PCUSG0114AF00	Cushion, 16mm x 8mm x 2.5mm	AA
147	PCUSU0092AG00	Cushion, Battery Compartment Lid	AA
148	PCUSU0128AFZZ	Cushion, L2, L3 and L4	AA
149	PCUSU0238AFZZ	Cushion, 20mm x 10mm x 7mm	AA
150	PFLT-0127AF00	Felt, Battery Compartment	AA
151	PFLT-0339AF00	Felt, Front Cabinet, Cassette Holder Plate Spring	AA
154	PGUMR0051AF00	Rubber, Cassette Holder	AA
155	PRDAR0214AFFW	Heat Sink, Power IC (IC103)	AB
156	PSLDM7119AFZZ	Shield Plate	AC
157	PTPEC0005AG00	Ribbon, Battery Removal	
158	QANTR0114AFZZ	Telescopic Rod Antenna	AM
160	QCNW-0638AFZZ	2-Core Wire, 80mm	AA
161	QCNW-0639AFZZ	9-Core Wire, 180mm	AD
162	QCNW-0640AFZZ	9-Core Wire, 100mm	AC
163	QCNW-0641AFZZ	5-Core Wire, 140mm	AB
164	QHWS-4010AGFN	Lug	AA
165	QLUGP0111CEFW	Lug Terminal, 13mm	AA
167	QTANB9108AFFN	Terminal, Battery (+)	AB
168	RMICC0076AFZZ	Built-in Microphone with Rubber	AF
169	TLABZ0130AFZZ	Decoration Sheet, Cassette Compartment	AA
170	XWVSE43-05000	Lock Washer, ϕ4	
171	Not Available	Bracket, Controls (Part of VR101, 102, 103)	–
174	HINDM1465AFSA	Indication Plate, SHARP	AC
175	HPNC-0120AFSA	Punching Metal	AL
177	QJUM-0001AFZZ	Jumper, Ceramic Coating	
178	QJUM-0002AFZZ	Jumper, Ceramic Coating	
CNP101	QCNCM172CAFZZ	Plug, 3-pin	AB
CNP102	QCNCM176GAFZZ	Plug, 7-pin	AC
CNP103	QCNCM171BAFZZ	Plug, 2-pin	AB
CNS101	QCNW-0637AFZZ	Socket, 3-pin (Tip and Lead)	AE
CNS102	QCNW-0636AFZZ	Socket, 7-pin (Tip and Lead)	AG
CNS103	Not Available	Socket, 2-pin (Part of Motor)	–
J103, J104, J105, J106	QJAKZ0108AFZZ	Socket Assembly; J103: Mixing Microphone J104: Headphones J105: EXT. Speaker (R-ch) J106: EXT. Speaker (L-ch)	AL
J101, J102, J107	QJAKZ0091AFZZ	Socket Assembly; J101: EXT. Microphone (R-ch) J102: EXT. Microphone (L-ch) J107: Remote Control	AK
SO301, SW301, J301	QSOCE0561AFZZ	Socket, AC Power Supply with AC/DC Switch (SW301) and EXT. DC Power Supply Socket (J301)	AH
SW1 (A ~ J)	QSW-R0171AFZZ	Switch, Band Selector	AN
SW2	QSW-B0121AFZZ	Switch, FM Mode Selector	AH
SW101 (A ~ F)	QSW-B0120AFZZ	Switch, Function Selector	AH
SW102 (A ~ L)	QSW-P0249AFZZ	Switch, Record/Playback	AG
SW103 (A ~ D)	QSW-B0122AFZZ	Switch, Tape Selector	AH
SW104	QSW-S0267AFZZ	Switch, Beat Cancel	AD
SW201	QSW-F0049AGZZ	Switch, Main	AE
SW202	QSW-F0135AFZZ	Switch, APSS	AC
SW203	QSW-F0135AFZZ	Switch, APSS Cut	AC
SOL1	RPLU-0102AFZZ	Plunger	AH
SP1	VSP0012PB424A	Speaker, R-ch Woofer	AQ
SP2	VSP0012PB424A	Speaker, L-ch Woofer	AQ
SP3	VSP00HNTX16ZC	Speaker, R-ch Tweeter	AH
SP4	VSP00HNTX16ZC	Speaker, L-ch Tweeter	AH
⚠	QACCZ0051AF00	Cord, AC Power Supply	AH
	QCNW-0668AFZZ	Leads Assembly, Speaker	AD
	QCNW-0669AFZZ	Leads Assembly, Power P.W.B.	AC
	QCNW-0677AFZZ	Lead Assembly, Shield Plate	AC
⚠	QPLGA0251AFZZ	Adaptor, AC Power Supply Cord Plug	AE
	QPLGZ0152AFZZ	Plug, Erasing	
	RTPEK0079AFZZ	Cassette tape	AM
	SPAKA0607AFZZ	Packing Add. (Left)	AE
	SPAKA0608 AFZZ	Packing Add. (Right)	AE
	SPAKC1820AFZZ	Packing Case	
	SSAKH0024AGZZ	Polyethylene Bag	AA
	TINSE0747AFZZ	Operation Manual	
	TLABG0134AFZZ	Cassette Label, Side-A	AA
	TLABG0135AFZZ	Cassette Label, Side-B	AA
	TLABZ0118AFZZ	Label, Indication: Free of Tax	AB
	TMAPC0819AFZZ	Schematic Diagram	
	UBATU0009AGZZ	Battery, UM-1	AC

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